

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/533,299A
Source: 1FWO
Date Processed by STIC: 9/1/06

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 09/01/2006

PATENT APPLICATION: US/10/533,299A

TIME: 10:17:11

Input Set : A:\29029106.APP

Output Set: N:\CRF4\09012006\J533299A.raw

3 <110> APPLICANT: SKERRA, ARNE
 4 FIEDLER, MARKUS
 6 <120> TITLE OF INVENTION: SOLUBLE TRUNCATED POLYPEPTIDES OF THE NOGO-A PROTEIN
 8 <130> FILE REFERENCE: 029029-0106
 10 <140> CURRENT APPLICATION NUMBER: 10/533,299A
 11 <141> CURRENT FILING DATE: 2005-04-29
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP02/12210
 14 <151> PRIOR FILING DATE: 2002-10-31
 16 <160> NUMBER OF SEQ ID NOS: 24
 18 <170> SOFTWARE: PatentIn Ver. 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 1163
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Rattus norvegicus
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 29 Pro Pro Arg Pro Pro Pro Ala Phe Lys Tyr Gln Phe Val Thr Glu Pro
 30 20 25 30
 32 Glu Asp Glu Glu Asp Glu Glu Glu Glu Asp Glu Glu Glu Asp Asp
 33 35 40 45
 35 Glu Asp Leu Glu Glu Leu Glu Val Leu Glu Arg Lys Pro Ala Ala Gly
 36 50 55 60
 38 Leu Ser Ala Ala Ala Val Pro Pro Ala Ala Ala Pro Leu Leu Asp
 39 65 70 75 80
 41 Phe Ser Ser Asp Ser Val Pro Pro Ala Pro Arg Gly Pro Leu Pro Ala
 42 85 90 95
 44 Ala Pro Pro Ala Ala Pro Glu Arg Gln Pro Ser Trp Glu Arg Ser Pro
 45 100 105 110
 47 Ala Ala Pro Ala Pro Ser Leu Pro Pro Ala Ala Ala Val Leu Pro Ser
 48 115 120 125
 50 Lys Leu Pro Glu Asp Asp Glu Pro Pro Ala Arg Pro Pro Pro Pro Pro
 51 130 135 140
 53 Pro Ala Gly Ala Ser Pro Leu Ala Glu Pro Ala Ala Pro Pro Ser Thr
 54 145 150 155 160
 56 Pro Ala Ala Pro Lys Arg Arg Gly Ser Gly Ser Val Asp Glu Thr Leu
 57 165 170 175
 59 Phe Ala Leu Pro Ala Ala Ser Glu Pro Val Ile Pro Ser Ser Ala Glu
 60 180 185 190
 62 Lys Ile Met Asp Leu Met Glu Gln Pro Gly Asn Thr Val Ser Ser Gly
 63 195 200 205
 65 Gln Glu Asp Phe Pro Ser Val Leu Leu Glu Thr Ala Ala Ser Leu Pro
 66 210 215 220

see
P.6

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68 Ser Leu Ser Pro Leu Ser Thr Val Ser Phe Lys Glu His Gly Tyr Leu
69 225                230                235                240
71 Gly Asn Leu Ser Ala Val Ser Ser Ser Glu Gly Thr Ile Glu Glu Thr
72                245                250                255
74 Leu Asn Glu Ala Ser Lys Glu Leu Pro Glu Arg Ala Thr Asn Pro Phe
75                260                265                270
77 Val Asn Arg Asp Leu Ala Glu Phe Ser Glu Leu Glu Tyr Ser Glu Met
78                275                280                285
80 Gly Ser Ser Phe Lys Gly Ser Pro Lys Gly Glu Ser Ala Ile Leu Val
81    290                295                300
83 Glu Asn Thr Lys Glu Glu Val Ile Val Arg Ser Lys Asp Lys Glu Asp
84 305                310                315                320
86 Leu Val Cys Ser Ala Ala Leu His Ser Pro Gln Glu Ser Pro Val Gly
87                325                330                335
89 Lys Glu Asp Arg Val Val Ser Pro Glu Lys Thr Met Asp Ile Phe Asn
90                340                345                350
92 Glu Met Gln Met Ser Val Val Ala Pro Val Arg Glu Glu Tyr Ala Asp
93                355                360                365
95 Phe Lys Pro Phe Glu Gln Ala Trp Glu Val Lys Asp Thr Tyr Glu Gly
96    370                375                380
98 Ser Arg Asp Val Leu Ala Ala Arg Ala Asn Val Glu Ser Lys Val Asp
99 385                390                395                400
101 Arg Lys Cys Leu Glu Asp Ser Leu Glu Gln Lys Ser Leu Gly Lys Asp
102                405                410                415
104 Ser Glu Gly Arg Asn Glu Asp Ala Ser Phe Pro Ser Thr Pro Glu Pro
105                420                425                430
107 Val Lys Asp Ser Ser Arg Ala Tyr Ile Thr Cys Ala Ser Phe Thr Ser
108    435                440                445
110 Ala Thr Glu Ser Thr Thr Ala Asn Thr Phe Pro Leu Leu Glu Asp His
111    450                455                460
113 Thr Ser Glu Asn Lys Thr Asp Glu Lys Lys Ile Glu Glu Arg Lys Ala
114 465                470                475                480
116 Gln Ile Ile Thr Glu Lys Thr Ser Pro Lys Thr Ser Asn Pro Phe Leu
117                485                490                495
119 Val Ala Val Gln Asp Ser Glu Ala Asp Tyr Val Thr Thr Asp Thr Leu
120                500                505                510
122 Ser Lys Val Thr Glu Ala Ala Val Ser Asn Met Pro Glu Gly Leu Thr
123                515                520                525
125 Pro Asp Leu Val Gln Glu Ala Cys Glu Ser Glu Leu Asn Glu Ala Thr
126    530                535                540
128 Gly Thr Lys Ile Ala Tyr Glu Thr Lys Val Asp Leu Val Gln Thr Ser
129 545                550                555                560
131 Glu Ala Ile Gln Glu Ser Leu Tyr Pro Thr Ala Gln Leu Cys Pro Ser
132                565                570                575
134 Phe Glu Glu Ala Glu Ala Thr Pro Ser Pro Val Leu Pro Asp Ile Val
135                580                585                590
137 Met Glu Ala Pro Leu Asn Ser Leu Leu Pro Ser Ala Gly Ala Ser Val
138                595                600                605
140 Val Gln Pro Ser Val Ser Pro Leu Glu Ala Pro Pro Pro Val Ser Tyr

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141	610		615		620											
143	Asp	Ser	Ile	Lys	Leu	Glu	Pro	Glu	Asn	Pro	Pro	Pro	Tyr	Glu	Glu	Ala
144	625					630					635					640
146	Met	Asn	Val	Ala	Leu	Lys	Ala	Leu	Gly	Thr	Lys	Glu	Gly	Ile	Lys	Glu
147					645					650						655
149	Pro	Glu	Ser	Phe	Asn	Ala	Ala	Val	Gln	Glu	Thr	Glu	Ala	Pro	Tyr	Ile
150				660					665					670		
152	Ser	Ile	Ala	Cys	Asp	Leu	Ile	Lys	Glu	Thr	Lys	Leu	Ser	Thr	Glu	Pro
153			675					680					685			
155	Ser	Pro	Asp	Phe	Ser	Asn	Tyr	Ser	Glu	Ile	Ala	Lys	Phe	Glu	Lys	Ser
156		690					695					700				
158	Val	Pro	Glu	His	Ala	Glu	Leu	Val	Glu	Asp	Ser	Ser	Pro	Glu	Ser	Glu
159	705					710					715					720
161	Pro	Val	Asp	Leu	Phe	Ser	Asp	Asp	Ser	Ile	Pro	Glu	Val	Pro	Gln	Thr
162					725					730						735
164	Gln	Glu	Glu	Ala	Val	Met	Leu	Met	Lys	Glu	Ser	Leu	Thr	Glu	Val	Ser
165				740					745					750		
167	Glu	Thr	Val	Ala	Gln	His	Lys	Glu	Glu	Arg	Leu	Ser	Ala	Ser	Pro	Gln
168			755					760					765			
170	Glu	Leu	Gly	Lys	Pro	Tyr	Leu	Glu	Ser	Phe	Gln	Pro	Asn	Leu	His	Ser
171		770					775					780				
173	Thr	Lys	Asp	Ala	Ala	Ser	Asn	Asp	Ile	Pro	Thr	Leu	Thr	Lys	Lys	Glu
174	785					790					795					800
176	Lys	Ile	Ser	Leu	Gln	Met	Glu	Glu	Phe	Asn	Thr	Ala	Ile	Tyr	Ser	Asn
177				805					810					815		
179	Asp	Asp	Leu	Leu	Ser	Ser	Lys	Glu	Asp	Lys	Ile	Lys	Glu	Ser	Glu	Thr
180				820					825					830		
182	Phe	Ser	Asp	Ser	Ser	Pro	Ile	Glu	Ile	Ile	Asp	Glu	Phe	Pro	Thr	Phe
183			835					840					845			
185	Val	Ser	Ala	Lys	Asp	Asp	Ser	Pro	Lys	Leu	Ala	Lys	Glu	Tyr	Thr	Asp
186		850					855					860				
188	Leu	Glu	Val	Ser	Asp	Lys	Ser	Glu	Ile	Ala	Asn	Ile	Gln	Ser	Gly	Ala
189	865					870					875					880
191	Asp	Ser	Leu	Pro	Cys	Leu	Glu	Leu	Pro	Cys	Asp	Leu	Ser	Phe	Lys	Asn
192					885					890					895	
194	Ile	Tyr	Pro	Lys	Asp	Glu	Val	His	Val	Ser	Asp	Glu	Phe	Ser	Glu	Asn
195				900					905					910		
197	Arg	Ser	Ser	Val	Ser	Lys	Ala	Ser	Ile	Ser	Pro	Ser	Asn	Val	Ser	Ala
198			915					920					925			
200	Leu	Glu	Pro	Gln	Thr	Glu	Met	Gly	Ser	Ile	Val	Lys	Ser	Lys	Ser	Leu
201		930					935					940				
203	Thr	Lys	Glu	Ala	Glu	Lys	Lys	Leu	Pro	Ser	Asp	Thr	Glu	Lys	Glu	Asp
204	945					950					955					960
206	Arg	Ser	Leu	Ser	Ala	Val	Leu	Ser	Ala	Glu	Leu	Ser	Lys	Thr	Ser	Val
207				965						970					975	
209	Val	Asp	Leu	Leu	Tyr	Trp	Arg	Asp	Ile	Lys	Lys	Thr	Gly	Val	Val	Phe
210				980					985					990		
212	Gly	Ala	Ser	Leu	Phe	Leu	Leu	Leu	Ser	Leu	Thr	Val	Phe	Ser	Ile	Val
213			995				1000					1005				

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215 Ser Val Thr Ala Tyr Ile Ala Leu Ala Leu Leu Ser Val Thr Ile Ser
216      1010                      1015                      1020
218 Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys Ser Asp Glu
219 1025                      1030                      1035                      1040
221 Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu
222                      1045                      1050                      1055
224 Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His Val Asn Ser
225                      1060                      1065                      1070
227 Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp Leu Val Asp
228                      1075                      1080                      1085
230 Ser Leu Lys Phe Ala Val Leu Met Trp Val Phe Thr Tyr Val Gly Ala
231      1090                      1095                      1100
233 Leu Phe Asn Gly Leu Thr Leu Leu Ile Leu Ala Leu Ile Ser Leu Phe
234 1105                      1110                      1115                      1120
236 Ser Ile Pro Val Ile Tyr Glu Arg His Gln Val Gln Ile Asp His Tyr
237                      1125                      1130                      1135
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243      1155                      1160
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247 <211> LENGTH: 1192
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
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256           20           25           30
258 Asp Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu Asp
259           35           40           45
261 Leu Glu Glu Leu Glu Val Leu Glu Arg Lys Pro Ala Ala Gly Leu Ser
262           50           55           60
264 Ala Ala Pro Val Pro Thr Ala Pro Ala Ala Gly Ala Pro Leu Met Asp
265   65           70           75           80
267 Phe Gly Asn Glu Phe Val Pro Pro Ala Pro Arg Gly Pro Leu Pro Ala
268           85           90           95
270 Ala Pro Pro Val Ala Pro Glu Arg Gln Pro Ser Trp Asp Pro Ser Pro
271           100          105          110
273 Val Ser Ser Thr Val Pro Ala Pro Ser Pro Leu Ser Ala Ala Ala Val
274           115          120          125
276 Ser Pro Ser Lys Leu Pro Glu Asp Asp Glu Pro Pro Ala Arg Pro Pro
277           130          135          140
279 Pro Pro Pro Pro Ala Ser Val Ser Pro Gln Ala Glu Pro Val Trp Thr
280 145          150          155          160
282 Pro Pro Ala Pro Ala Pro Ala Ala Pro Pro Ser Thr Pro Ala Ala Pro
283           165          170          175
285 Lys Arg Arg Gly Ser Ser Gly Ser Val Asp Glu Thr Leu Phe Ala Leu
286           180          185          190

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288 Pro Ala Ala Ser Glu Pro Val Ile Arg Ser Ser Ala Glu Asn Met Glu
289      195      200      205
291 Leu Lys Glu Gln Pro Gly Asn Thr Ile Ser Ala Gly Gln Glu Asp Phe
292      210      215      220
294 Pro Ser Val Leu Leu Glu Thr Ala Ala Ser Leu Pro Ser Leu Ser Pro
295 225      230      235      240
297 Leu Ser Ala Ala Ser Phe Lys Glu His Glu Tyr Leu Glu Asn Leu Ser
298      245      250      255
300 Thr Val Leu Pro Thr Glu Gly Thr Leu Gln Glu Asn Val Ser Glu Ala
301      260      265      270
303 Ser Lys Glu Val Ser Glu Lys Ala Lys Thr Leu Leu Ile Asp Arg Asp
304      275      280      285
306 Leu Thr Glu Phe Ser Glu Leu Glu Tyr Ser Glu Met Gly Ser Ser Phe
307      290      295      300
309 Ser Val Ser Pro Lys Ala Glu Ser Ala Val Ile Val Ala Asn Pro Arg
310 305      310      315      320
312 Glu Glu Ile Ile Val Lys Asn Lys Asp Glu Glu Glu Lys Leu Val Ser
313      325      330      335
315 Asn Asn Ile Leu His Asn Gln Gln Glu Leu Pro Thr Ala Leu Thr Lys
316      340      345      350
318 Leu Val Lys Glu Asp Glu Val Val Ser Ser Glu Lys Ala Lys Asp Ser
319      355      360      365
321 Phe Asn Glu Lys Arg Val Ala Val Glu Ala Pro Met Arg Glu Glu Tyr
322      370      375      380
324 Ala Asp Phe Lys Pro Phe Glu Arg Val Trp Glu Val Lys Asp Ser Lys
325 385      390      395      400
327 Glu Asp Ser Asp Met Leu Ala Ala Gly Gly Lys Ile Glu Ser Asn Leu
328      405      410      415
330 Glu Ser Lys Val Asp Lys Lys Cys Phe Ala Asp Ser Leu Glu Gln Thr
331      420      425      430
333 Asn His Glu Lys Asn Ser Glu Ser Ser Asn Asp Asp Thr Ser Phe Pro
334      435      440      445
336 Ser Thr Pro Glu Gly Ile Lys Asp Arg Pro Gly Ala Tyr Ile Thr Cys
337      450      455      460
339 Ala Pro Phe Asn Pro Ala Ala Thr Glu Ser Ile Ala Thr Asn Ile Phe
340 465      470      475      480
342 Pro Leu Leu Gly Asp Pro Thr Ser Glu Asn Lys Thr Asp Glu Lys Lys
343      485      490      495
345 Ile Glu Glu Lys Lys Ala Gln Ile Val Thr Glu Lys Asn Thr Ser Thr
346      500      505      510
348 Lys Thr Ser Asn Pro Phe Leu Val Ala Ala Gln Glu Ser Glu Thr Asp
349      515      520      525
351 Tyr Val Thr Thr Asp Asn Leu Thr Lys Val Thr Glu Glu Val Val Ala
352      530      535      540
354 Asn Met Pro Glu Gly Leu Thr Pro Asp Leu Val Gln Glu Ala Cys Glu
355 545      550      555      560
357 Ser Glu Leu Asn Glu Val Thr Gly Thr Lys Ile Ala Tyr Glu Thr Lys
358      565      570      575
360 Met Asp Leu Val Gln Thr Ser Glu Val Met Gln Glu Ser Leu Tyr Pro

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/533,299A

DATE: 09/01/2006
TIME: 10:17:12

Input Set : A:\29029106.APP
Output Set: N:\CRF4\09012006\J533299A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 38,39,44,45,47,48

Seq#:10; N Pos. 50,51,53,54

VERIFICATION SUMMARY

DATE: 09/01/2006

PATENT APPLICATION: US/10/533,299A

TIME: 10:17:12

Input Set : A:\29029106.APP

Output Set: N:\CRF4\09012006\J533299A.raw

L:582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0

L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0